

I claim:

1. A reclosable fastener for resealably closing a bag with opposing wall panels, each wall panel having an inner surface, the fastener adapted to be affixed to the upper portions of the inner surfaces, the fastener comprising:

5 a first continuous, elongated, profile strip with first and second adjacent hooks disposed thereon, the first hook being disposed at an end of the profile strip and the second hook being located proximal to the first hook;

a second continuous, elongated, profile strip with first and second adjacent hooks disposed thereon, the first hook being disposed at an end of the profile strip and the second hook is located proximal to the first hook; and

a plurality of continuous recesses disposed along the length of each of the first and second profile strips, at least one of the recesses being dimensioned to resealably mate with one of the first or second hooks on the opposing strip forming an airtight and watertight seal and at least one continuous recess on each of the first and second profile strip being dimensioned not to mate with the hooks.

2. The reclosable fastener of claim 1, wherein said first and second elongated profile strips are substantially without lateral sealing flanges.

20 3. The reclosable fastener of claim 2, wherein at least two of the continuous recesses are dimensioned to resealably mate with the hooks.

4. The reclosable fastener of claim 3, further comprising at least one protuberance along a length of each of the first and second profile strip and dimensioned to fit securely in the continuous recess on each of the first and second profile strip not dimensioned to mate with the hooks.

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5. The reclosable fastener of claim 4, further comprising a plurality of ridges on a back side of each of the first and second profile strips.

6. The reclosable fastener of claim 5, wherein at least one of the hooks on the first profile strip is located near the center of the profile strip.

7. The reclosable fastener of claim 6, wherein the hooks are substantially symmetrically distributed on two sides of a center axis of the profile strip.

8. The reclosable fastener of claim 7, wherein the hooks are mono-hooked ribs of equal height.

9. The reclosable fastener of claim 1, wherein a head portion with a cross-sectional width of 0.024 inches \pm 0.0024 inches and a neck portion with a cross-sectional width of 0.018 \pm 0.0018 inches comprise the first and second hooks on the first and second profile strips.

10. The reclosable fastener of claim 1, wherein the at least one continuous recess on each of the first and second profile strips is formed by adjacent elongated members having a cross-sectional width of 0.013 inches \pm 0.0013 inches.

11. The reclosable fastener of claim 1, further comprising:

a first and second recess on the first profile strip, the first recess being formed by the second hook and a first elongated member and configured to receive a first elongated member on the second profile strip, and the second recess being formed by the first elongated member and a second elongated member and configured to receive a second elongated member on the second profile strip;

a first and second recess on the second profile strip, the first recess being formed by the first and second elongated member on the second profile strip and configured to receive the first elongated member on the first profile strip, and the second recess formed by the second elongated member on the second profile strip and a third elongated member on the second elongated profile strip and configured to receive the second elongated member on the first profile strip;

wherein the elongated members on the first and second profile strips have cross-sectional width of 0.013 inches \pm 0.0013 inches.

12. The reclosable fastener of claim 11, wherein the plurality of ridges have cross-sectional width of 0.019 inches \pm 0.0019 inches.

13. A plastic film bag comprising opposing wall panels, each wall panel comprising an inner surface and a first, second, third and fourth edge, wherein the wall panels are attached along the first, second and third edges, and a reclosable fastener is affixed to the inner surfaces at about the fourth edges of the wall panels and approximately parallel to the fourth edges of the wall panels, the reclosable fastener comprising:

a first continuous, elongated, profile strip with first and second adjacent hooks disposed thereon, the first hook being disposed at an end of the profile strip and the second hook being located proximal to the first hook; and

a second continuous, elongated, profile strip with first and second adjacent hooks disposed thereon, the first hook being disposed at an end of the profile strip and the second hook being located proximal to the first hook; and

a plurality of continuous recesses disposed along the length of each of the first and second profile strips, at least one of the recesses being dimensioned to resealably mate with one of the first or second hooks on the opposing strip forming an airtight and watertight seal and at least one continuous recess on each of the first and second profile strip being dimensioned not to mate with the hooks.

14. The reclosable fastener of claim 13, wherein said first and second elongated profile strips are substantially without lateral sealing flanges.

15 The plastic film bag of claim 14, wherein at least two of the continuous recesses on the reclosable fastener are dimensioned to resealably mate with the hooks.

16 The plastic film bag of claim 15, wherein the reclosable fastener further comprises at least one protuberance along a length of each of the first and second profile strip and dimensioned to fit securely in the continuous recess on each of the first and second profile strip not dimensioned to mate with the hooks.

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17. The plastic film bag of claim 16, wherein the reclosable fastener further comprises a plurality of ridges on a back side of each of the first and second profile strips.

18. The plastic film bag of claim 17, wherein at least one of the hooks on the first profile strip is located near the center of the profile strip.

19. The plastic film bag of claim 18, wherein the hooks are substantially symmetrically distributed on two sides of a center axis of the profile strip.

20. The plastic film bag of claim 19, wherein the hooks are mono-hooked ribs of equal height.

21. The reclosable fastener of claim 15, wherein a head portion with a cross-sectional width of 0.024 inches \pm 0.0024 inches and a neck portion with a cross-sectional width of 0.018 \pm 0.0018 inches comprise the first and second hooks on the first and second profile strips.

22. The reclosable fastener of claim 15, wherein the at least one continuous recess on each of the first and second profile strip is formed by adjacent elongated members having a cross-sectional width of 0.013 inches \pm 0.0013 inches.

23. The reclosable fastener of claim 15 further comprising:

a first and second recess on the first profile strip, the first recess being formed by the second hook and a first elongated member and configured to receive a first elongated member on the second profile strip, and the second recess being formed by the first elongated member and a second elongated member and configured to receive a second elongated member on the second profile strip;

a first and second recess on the second profile strip, the first recess being formed by the first and second elongated member on the second profile strip and configured to receive the first elongated member on the first profile strip, and the second recess formed by the second elongated member on the second profile strip and a third elongated member on the second elongated profile strip and configured to receive the second elongated member on the first profile strip;

wherein the elongated members on the first and second profile strips have cross-sectional width of 0.013 inches \pm 0.0013 inches.

24. The reclosable fastener of claim 23, wherein said first and second elongated profile strips are substantially without lateral sealing flanges.

25. The reclosable fastener of claim 17, wherein the plurality of ridges have cross-sectional width of 0.019 inches \pm 0.0019 inches.

26. A reclosable strip fastener comprising:

5 a first continuous, elongated, profile strip with first and second adjacent hooks disposed thereon, the first hook being disposed at an end of the profile strip and the second hook being located proximal to the first hook; and

a second continuous, elongated, profile strip with first and second adjacent hooks disposed thereon, the first hook being disposed at an end of the profile strip and the second hook is located proximal to the first hook;

10 a plurality of continuous recesses disposed along the length of each of the first and second profile strip, at least one of the recesses being dimensioned to resealably mate with one of the first or second hooks on the opposing strip forming an airtight and watertight seal and at least one continuous recess on each of the first and second profile strip being dimensioned not to mate with the hooks.

27. The reclosable fastener of claim 26, wherein said first and second elongated profile strips are substantially without lateral sealing flanges.

20 28. The reclosable fastener of claim 27, wherein at least two of the continuous recesses are dimensioned to resealably mate with the hooks.

29. The reclosable fastener of claim 28, further comprising at least one protuberance along a length of each of the first and second profile strip and dimensioned to fit securely in the continuous recess on each of the first and second profile strip not dimensioned to mate with the hooks.

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30. The reclosable fastener of claim 29, further comprising a plurality of ridges on a back side of each of the first and second profile strips.

31. The reclosable fastener of claim 30, wherein at least one of the hooks on the first profile strip is located near the center of the profile strip.

32. The reclosable fastener of claim 31, wherein the hooks are substantially symmetrically distributed on two sides of a center axis of the profile strip.

33. The reclosable fastener of claim 32, wherein the hooks are mono-hooked ribs of equal height.

34. The reclosable fastener of claim 26, wherein a head portion with a cross-sectional width of 0.024 inches \pm 0.0024 inches and a neck portion with a cross-sectional width of 0.018 \pm 0.0018 inches comprise the first and second hooks on the first and second profile strips.

38. A reclosable fastener for resealably closing a bag with opposing wall panels, each wall panel having an inner surface, the fastener adapted to be affixed to the upper portions of the inner surfaces, the fastener comprising:

a first continuous, elongated, profile strip and a second, continuous elongated profile strip, each profile strip comprising a first hook having a half arrowhead-shaped tip, a concave tail, and a generally upstanding neck connecting the tip and tail and configured to form an airtight and watertight seal with a first recess on the opposing strip comprising a first and second generally upstanding neck disposed on opposite ends of a base that does not extend laterally beyond the first and second neck elements, and the first and second profile strip being configured to affix to the upper portions of the inner surfaces without entrapping air between the profile and the wall panel.